Manitoba
Building for the Future

Guidelines For Estimating

# Swine Farrow-Finish Costs

Based On 300 Sows and 5,809 Pigs Sold

**Manitoba Agriculture and Food - Information Update** **www.gov.mb.ca/agriculture/**

**Date: February, 2003**

This publication is intended to provide a format and a set of guidelines for determining the cost of production for a swine enterprise. Adjustments will be necessary when applying these figures to your enterprise.

The assumptions on which the costs are based are outlined in the supporting pages. These assumptions were arrived at using the breeding stock, management practices, and facilities seen in modern, well managed swine operations of comparable size in Manitoba. Productivity and performance assumptions are based on information collected by department specialists, feed companies and other organizations. Where individual herd productivity and performance levels differ from those listed adjustments will be required.

Accurate, up to date, production and financial records are essential for the effective application of these guidelines to an individual operation. Without such information accurate cost of production projections cannot be determined.

The guideline can be useful for comparison purposes. Comparison of costs at different levels of production can be made with other farms, the farm over a period of time or comparing the plan with the actual results at the end of the planning period.

**Disclaimer:** This budget is only a guide and is not intended as an in depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user. If you require assistance with developing your individual budget, please contact your local Manitoba Agriculture and Food office.

## Farrow-Finish Pig Cost of Production

The following farrow finish budget is based on the assumption that **creep and starter rations are purchased, all others are home mixed**. The budget assumes a land investment cost based on 160 acres, which would be required for this size operation, with 140 acres rented out at $25 per acre.

The budget includes an assumption that 1.5% of the market pigs are sold as lightweight pigs. It is assumed that when the lightweight pigs are sold, they will have a salvage value. Therefore, total marketings are reduced by only 1% to compensate for the lightweight pigs.

The budget includes an assumption that this particular operation is "all-in, all-out" by room. Space allocations for finishing pigs are in accordance with the Recommended Code of Practice for the Care and Handling of Farm Animals: Pigs.

The rations illustrated in this budget are examples only. Individual farm conditions should be taken into account when formulating the diets. Producers need to know the feed intakes of their animals. Please consult with a nutritionist for diet information and suggestions.

The Manitoba pork production industry profile is changing and this budget was specifically designed to address the need of producers who may want to analyze the cost of production for a farrow to finish operation. Several companies are offering contracts with varying levels of guarantees. Producers need to accurately calculate their costs before they can properly make a decision.

## 300 Sow Farrow-Finish Cost of Production Summary

### February, 2003

| A. Operating Costs | $/Pig Sold | $/Sow /Year | Total Cost | Your Cost |
|---|---|---|---|---|
| **1. Feed Costs:** | | | | |
| 1.01 Sow Lactation | $3.33 | $64.55 | $19,365 | |
| 1.02 Sow Gestation | $8.08 | $156.48 | $46,945 | |
| 1.03 Boar Ration | $0.50 | $9.74 | $2,921 | |
| 1.04 Creep Feed | $4.90 | $94.94 | $28,482 | |
| 1.05 Nursery Starter #1 | $7.29 | $141.19 | $42,357 | |
| 1.06 Nursery Starter #2 | $6.37 | $123.40 | $37,020 | |
| 1.07 Starter | $15.50 | $300.16 | $90,048 | |
| 1.08 Grower | $18.65 | $361.18 | $108,354 | |
| 1.09 Finisher | $23.39 | $453.01 | $135,904 | |
| **Total Feed Cost** | **$88.03** | **$1,704.66** | **$511,397** | |
| **2. Other Operating Costs:** | | | | |
| 2.01 Veterinary Medicine & Supplies | $2.44 | $47.27 | $14,180 | |
| 2.02 Maintenance & Repairs | $1.19 | $23.12 | $6,935 | |
| 2.03 Hydro & Propane | $2.63 | $50.86 | $15,258 | |
| 2.04 Insurance | $2.25 | $43.50 | $13,051 | |
| 2.05 Manure Costs | $4.30 | $83.32 | $24,996 | |
| 2.06 Office Supplies | $0.10 | $2.00 | $600 | |
| 2.07 Marketing & Transport. | $6.56 | $127.03 | $38,109 | |
| 2.08 Sow Replacement | $4.02 | $77.91 | $23,372 | |
| 2.09 Boar Replacement | $1.11 | $21.54 | $6,461 | |
| 2.10 Property Tax | $1.14 | $22.05 | $6,615 | |
| Subtotal Operating Costs | $113.78 | $2,203.24 | $660,973 | |
| 2.11 Interest on Operating Costs | $1.54 | $29.88 | $8,964 | |
| **Total Operating Costs** | **$115.32** | **$2,233.12** | **$669,937** | |
| **B. Fixed Costs** | | | | |
| **3. Depreciation:** | | | | |
| 3.01 Buildings & Manure Storage | $5.32 | $103.09 | $30,926 | |
| 3.02 Equipment | $9.71 | $188.08 | $56,423 | |
| **Total Depreciation Cost** | **$15.04** | **$291.16** | **$87,349** | |
| **4. Investment:** | | | | |
| 4.01 Land cost | $0.28 | $5.33 | $1,600 | |
| 4.02 Buildings & Manure Storage | $2.59 | $50.16 | $15,048 | |
| 4.03 Equipment | $2.37 | $45.97 | $13,792 | |
| 4.04 Breeding Herd | $0.83 | $16.00 | $4,800 | |
| **Total Investment Cost** | **$6.07** | **$117.47** | **$35,241** | |
| **Total Fixed Costs** | **$21.10** | **$408.63** | **$122,590** | |
| **C. Labour** | | | | |
| 90 hours/week farrow wean | $9.67 | $187.20 | $56,160 | |
| 45 hours/week grower finish | $4.83 | $93.60 | $28,080 | |
| **Total Labour Cost** | **$14.50** | **$280.80** | **$84,240** | |
| **Total Cost of Production** | **$150.92** | **$2,922.56** | **$876,767** | |
| **Break-Even Price (carcass) [1]** | **$/100 kg** | **$/CWT** | | |
| Operating Cost | $118.12 | $53.58 | | |
| Operating & Labour Cost | $132.97 | $60.32 | | |
| Operating, Labour & Fixed Cost | $154.58 | $70.12 | | |

[1] FOOTNOTE: Break-even Price = Cost per Hog Sold ÷ (Slaughter Weight X Dressing Percentage X Index)

**Disclaimer:** This budget is only a guide and is not intended as an in depth study of the cost of production of this industry. Interpretation and utilization of this information is the responsibility of the user.

## Farrow - Finish Pig Production Costs

1. This input table outlines the cost of production for a farrow finish operation.
2. Buildings and equipment are valued at new cost.
3. Purchased feed is used for creep and starter all other feed is home mixed.
4. Manure haulage is contracted out.
5. Gilts are purchased for herd replacement.
6. No weaner pigs are sold.

## Farrow - Wean Pig Production Assumptions

**Indicators of Productivity**

| | |
|---|---|
| Sows | **300** |
| Boars | **15** |
| Litters/Sow/Year | **2.20** |
| Average Weaning Age (days) | **21** |
| Average Born Alive per Litter | **10.50** |
| Percent Pre-Weaning Mortality | **10.0** |
| Percent Post-Weaning Mortality | **3.0** |

| **Herd Profile** | **Total** | **/Sow** | **/Litter** | **%Mortality** |
|---|---|---|---|---|
| Sows | 300 | | | |
| Boars | 15 | | | |
| Litters | 660 | 2.20 | | |
| Pigs Born Alive | 6,930 | 23.10 | 10.50 | |
| Pigs Died, Pre-Weaning | 693 | 2.31 | 1.05 | 10.0 |
| Pigs Weaned | 6,237 | 20.79 | 9.45 | |
| Pigs Died, Post-Weaning | 187 | 0.62 | 0.28 | 3.0 |
| Weaner Pigs Transferred | 6,050 | 20.17 | 9.17 | |

| **Feed Requirements and Costs** | | | **Purchased** | **Home-Mixed** | |
|---|---|---|---|---|---|
| Dry Sow Ration | **2.3** | kg/day | **$0.00** | $213.42 | /tonne |
| Nursing Sow Ration | **6.0** | kg/day | **$0.00** | $232.87 | /tonne |
| Boar Ration | **2.5** | kg/day | **$0.00** | $213.42 | /tonne |
| Creep | **3.0** | kg | **$1,370.00** | $0.00 | /tonne |
| Nursery Starter 1 | **14.0** | kg | **$500.00** | $0.00 | /tonne |
| Nursery Starter 2 | **14.0** | kg | **$437.00** | $0.00 | /tonne |

| **Weaner Pig Efficiency** | **Starter #1** | **Starter #2** | **Total** |
|---|---|---|---|
| Days Post-Weaning (nursery) | **21** | **14** | 35 days |
| Target Starting Weight (kg) | **8.0** | **16.0** | 8.0 kg |
| Target Ending Weight (kg) | **16.0** | **23.0** | 23.0 kg |
| Feed Conversion Ratio (feed:gain) | 1.75 | 2.00 | 1.87 |
| Average Daily Gain (kg) | 0.38 | 0.50 | 0.44 kg |

**Labour**

| | | |
|---|---|---|
| Total Hours per 7-day week | **90.0** | hours/week (including manager) |
| Hourly Wage (including hired manager) | **$12.00** | /hour (weighted) |

## Grower-Finisher Pig Production Assumptions

Livestock values are based on

| | | | | |
|---|---|---|---|---|
| a Market Price for Pork of: | **$154.00** | /100 kg | **108** | Market Index |
| or: | $69.85 | /cwt | **80** | % Dressing |
| Premium: | **$1.00** | /head | | |

| **Indicators of Productivity** | **Starter** | **Grower** | **Finish** | **Total** |
|---|---|---|---|---|
| No. of Pigs (Beginning) | 6,050 | 5,990 | 5,930 | -- |
| Average Beginning Weight (kg) | **23.0** | 50.0 | 80.0 | -- |
| Average Ending Weight (kg) | **50.0** | **80.0** | **113.0** | -- |
| Percent Mortality | **1.00** | **1.00** | **1.00** | 3.00 |
| Days on Feed | **36** | **33** | **40** | 109.00 |
| Feed Conversion Ratio [1] | **2.60** | **2.90** | **3.30** | 2.96 |
| No. of Pigs (Ending) | 5,990 | 5,930 | 5,870 | -- |
| Weight Gain/Pig (kg) | 27.0 | 30.0 | 33.0 | 90.0 |
| Feed Disappearance/Pig (kg) | 70.2 | 87.0 | 108.9 | 266.1 |
| Average Daily Gain (kg) | **0.750** | **0.900** | **0.830** | **0.826** |
| Average No. Pigs in Barn [2] | 1,798 | 1,780 | 1,762 | 1,780 |

[1] FOOTNOTE: The Feed Conversion Ratio (FCR) in the 'Total' column is a weighted average of the other feed conversion ratios. Also note that an accurate feed conversion ratio for the grower-finisher enterprise is calculated by dividing 'Total Feed used per Year' by 'Total Gain per Year'; where 'Total Gain per Year' equals 'Total Hogs Sold' times 'Gain per Hog'. When calculated in this way, the feed conversion ratio includes feed lost through wastage and weight gain lost through death of pigs.

[2] FOOTNOTE: Assume that "Avg. No. of Pigs in Barn" equals "Pig Places".

| **Productivity Profile** | **Total** | | |
|---|---|---|---|
| Pigs transferred | 6,050 | | |
| Pigs Died | 182 | 3.00 | % mortality |
| Pigs available for marketing | 5,868 | | |
| Less light weight pig adjustment | 59 | **1.00** | % light weight adjustment |
| Pigs Sold at full market value | 5,809 | 19.36 | sold/sow |
| Total Days to Market | 165 | | |
| Turnover (365 / days to market) | 2.21 | | |

**Feed Requirements and Costs**

| | **FCR*** | **kg/pig** | **Ration Cost Purchased** | **Home-Mixed** |
|---|---|---|---|---|
| Starter Ration | 2.60 | 70.2 | **$0.00** | $220.81 /tonne |
| Grower Ration | 2.90 | 87.0 | **$0.00** | $214.39 /tonne |
| Finish Ration | 3.30 | 108.9 | **$0.00** | $214.82 /tonne |

*** FCR = Feed Conversion Ratio (Feed:Gain)**

**Labour**

| | | | |
|---|---|---|---|
| Total Hours per year | **45.0** | hours/week | 2,340 hours/year |
| Wage (incl. benefits @15%) | **$12.00** | /hour (weighted) | |

## Capital Costs

**2,000** pig places feeder barn

| | | $/Sq.Ft. | Total | /Sow |
|---|---|---|---|---|
| **Buildings** | | | | |
| Gestation | 8,100 sq.ft. | **$17.10** | $138,510 | $461.70 |
| Farrowing/Nursing | 9,900 sq.ft. | **$19.45** | $192,555 | $641.85 |
| Feeder Barn | 18,400 sq.ft. | **$14.20** | $261,280 | $870.93 |
| Office & Loading | **288** sq.ft. | **$23.15** | $6,667 | $22.22 |
| Standby Generator | | | **$25,000** | $83.33 |
| Feed Mill (building only) | | | **$10,000** | $33.33 |
| **Total Building Cost** | | | **$634,012** | $2,113.37 |
| **Equipment** | | **$/Sq.Ft.** | | |
| Gestation | | **$15.25** | $123,525 | $411.75 |
| Farrowing/Nursing | | **$20.00** | $198,000 | $660.00 |
| Finishing Barn | | **$11.00** | $202,400 | $674.67 |
| Fire Alarm System | | | **$3,000** | $10.00 |
| Feed Mill (equipment only). | | | **$100,000** | $333.33 |
| **Total Equipment Cost** | | | **$626,925** | **$2,089.75** |
| **Total Buildings and Equipment Cost** | | | **$1,260,937** | **$4,203.12** |
| **Breeding Stock** | | | | |
| Value of Replacement Sow | $350 /sow | | $105,000 | $350.00 |
| Value of Replacement Boar | $1,000 /boar | | $15,000 | $50.00 |
| **Total Breeding Stock Cost** | | | **$120,000** | **$400.00** |
| **Land Value** | | | | |
| Land Investment | 20 acres @ | $500 /acre | $10,000 | $33.33 |
| **Other Costs** | | | | |
| Site Preparation | | | **$30,000** | $100.00 |
| Manure Storage | | | **$55,000** | $183.33 |
| **Total Other Costs** | | | **$85,000** | **$283.33** |
| **Total Capital Investment** | | | **$1,445,937** | **$4,819.79** |

[1] FOOTNOTE: The number of square feet allocated for buildings and equipment are approximations. Cost per sow for buildings and equipment will vary around the province.

FOOTNOTE: 1 sq.ft. = 0.0929 sq.m; 1 sq.m.= 10.764 sq.ft.; 1 ft.= 0.3048 m

## Feed Ingredient Costs

| | Price ($/tonne) | Your Cost |
|---|---|---|
| Barley | $190 | |
| Corn | $162 | |
| Soybean Meal - 47 % | $300 | |
| Canola Meal - 34% | $225 | |
| Peas | $225 | |
| Creep Premix | $850 | |
| Sow Micro Premix | $3,000 | |
| Grower Micro Premix | $2,500 | |
| Canola Oil | $500 | |
| Whey Powder | $800 | |
| Herring Meal | $1,400 | |
| Plasma | $7,500 | |
| Limestone | $80 | |
| Dical (16% Ca-21% P) | $470 | |
| Salt - 96% | $98 | |
| L-Lysine HCL | $2,700 | |
| L-Threonine | $6,400 | |
| D L-Methionine | $4,500 | |
| Oats - Steam rolled | $400 | |
| Processing Cost | | |
| (Hydro, Repairs/Maintenance & Insurance) | $3.25 | |
| Percent Weight loss due to processing | 1.25 | |
| Labour Cost | $4.00 | |

## Feed Requirement and Cost Summary

| | Amount (kg) | Price ($ /tonne) | Ration Cost ($ /tonne) | Your Cost |
|---|---|---|---|---|
| **Sow Gestation** | | | | |
| Barley | 456.47 | $190.00 | $86.73 | |
| Corn | 367.49 | $162.00 | $59.53 | |
| Soybean Meal - 47 % | 6.62 | $300.00 | $1.99 | |
| Canola Meal - 34% | 132.41 | $225.00 | $29.79 | |
| Sow Micro Premix | 5.00 | $3,000.00 | $15.00 | |
| Limestone | 14.29 | $80.00 | $1.14 | |
| Dical (16% Ca-21% P) | 13.14 | $470.00 | $6.18 | |
| Salt - 96% | 3.50 | $98.00 | $0.34 | |
| L-Lysine HCL | 1.08 | $2,700.00 | $2.92 | |
| **Total Sow Gestation:** | **1,000.00 kg** | | **$203.62** | |
| Adjusted For Weight Loss | | 1.25 % | $206.17 | |
| Plus Processing Cost | | $3.25 | $209.42 | |
| Plus Labour Cost | | $4.00 | **$213.42** | |
| **Sow Lactation** | | | | |
| Barley | 303.10 | $190.00 | $57.59 | |
| Corn | 423.78 | $162.00 | $68.65 | |
| Soybean Meal - 47 % | 226.74 | $300.00 | $68.02 | |
| Sow Micro Premix | 5.00 | $3,000.00 | $15.00 | |
| Limestone | 14.87 | $80.00 | $1.19 | |
| Dical (16% Ca-21% P) | 20.71 | $470.00 | $9.73 | |
| Salt - 96% | 5.00 | $98.00 | $0.49 | |
| L-Lysine HCL | 0.80 | $2,700.00 | $2.16 | |
| **Total Sow Lactation:** | **1,000.00 kg** | | **$222.83** | |
| Adjusted For Weight Loss | | 1.25 % | $225.62 | |
| Plus Processing Cost | | $3.25 | $228.87 | |
| Plus Labour Cost | | $4.00 | **$232.87** | |
| **Boar Ration:** | | | | |
| Barley | 456.47 | $190.00 | $86.73 | |
| Corn | 367.49 | $162.00 | $59.53 | |
| Soybean Meal - 47 % | 6.62 | $300.00 | $1.99 | |
| Canola Meal - 34% | 132.41 | $225.00 | $29.79 | |
| Sow Micro Premix | 5.00 | $3,000.00 | $15.00 | |
| Limestone | 14.29 | $80.00 | $1.14 | |
| Dical (16% Ca-21% P) | 13.14 | $470.00 | $6.18 | |
| Salt - 96% | 3.50 | $98.00 | $0.34 | |
| L-Lysine HCL | 1.08 | $2,700.00 | $2.92 | |
| **Total Boar:** | **1,000.00 kg** | | **$203.62** | |
| Adjusted For Weight Loss | | 1.25 % | $206.17 | |
| Plus Processing Cost | | $3.25 | $209.42 | |
| Plus Labour Cost | | $4.00 | **$213.42** | |

| | Amount (kg) | | Price ($ /tonne) | Ration Cost ($ /tonne) | Your Cost |
|---|---|---|---|---|---|
| **Creep** | | | | | |
| Corn | 139.75 | | $162.00 | $22.64 | |
| Soybean Meal - 47 % | 116.59 | | $300.00 | $34.98 | |
| Sow Micro Premix | 5.00 | | $3,000.00 | $15.00 | |
| Canola Oil | 20.00 | | $500.00 | $10.00 | |
| Whey Powder | 100.00 | | $800.00 | $80.00 | |
| Herring Meal | 60.00 | | $1,400.00 | $84.00 | |
| Plasma | 58.00 | | $7,500.00 | $435.00 | |
| Limestone | 12.23 | | $80.00 | $0.98 | |
| Dical (16% Ca-21% P) | 9.43 | | $470.00 | $4.43 | |
| Salt - 96% | 3.50 | | $98.00 | $0.34 | |
| L-Lysine HCL | 0.50 | | $2,700.00 | $1.35 | |
| Oats - Steam rolled | 475.00 | | $400.00 | $190.00 | |
| **Total Pre Starter 1:** | **1,000.00** | **kg** | | **$878.72** | |
| Adjusted For Weight Loss | | | 1.25 % | $889.70 | |
| Plus Processing Cost | | | $3.25 | $892.95 | |
| Plus Labour Cost | | | $4.00 | **$896.95** | |
| **Nursery Starter #1** | | | | | |
| Corn | 142.68 | | $162.00 | $23.11 | |
| Soybean Meal - 47 % | 177.67 | | $300.00 | $53.30 | |
| Sow Micro Premix | 5.00 | | $3,000.00 | $15.00 | |
| Canola Oil | 20.00 | | $500.00 | $10.00 | |
| Whey Powder | 120.00 | | $800.00 | $96.00 | |
| Herring Meal | 60.00 | | $1,400.00 | $84.00 | |
| Limestone | 12.45 | | $80.00 | $1.00 | |
| Dical (16% Ca-21% P) | 8.20 | | $470.00 | $3.85 | |
| Salt - 96% | 3.50 | | $98.00 | $0.34 | |
| L-Lysine HCL | 0.50 | | $2,700.00 | $1.35 | |
| Oats - Steam rolled | 450.00 | | $400.00 | $180.00 | |
| **Total Pre Starter 2** | **1,000.00** | **kg** | | **$467.95** | |
| Adjusted For Weight Loss | | | 1.25 % | $473.80 | |
| Plus Processing Cost | | | $3.25 | $477.05 | |
| Plus Labour Cost | | | $4.00 | **$481.05** | |
| **Nursery Starter #2** | | | | | |
| Corn | 648.89 | | $162.00 | $105.12 | |
| Soybean Meal - 47 % | 192.72 | | $300.00 | $57.82 | |
| Sow Micro Premix | 5.00 | | $3,000.00 | $15.00 | |
| Canola Oil | 10.00 | | $500.00 | $5.00 | |
| Whey Powder | 80.00 | | $800.00 | $64.00 | |
| Herring Meal | 40.00 | | $1,400.00 | $56.00 | |
| Limestone | 10.67 | | $80.00 | $0.85 | |
| Dical (16% Ca-21% P) | 7.76 | | $470.00 | $3.65 | |
| Salt - 96% | 3.50 | | $98.00 | $0.34 | |
| L-Lysine HCL | 1.46 | | $2,700.00 | $3.94 | |
| **Total Nursery Starter** | **1,000.00** | **kg** | | **$311.72** | |
| Adjusted For Weight Loss | | | 1.25 % | $315.62 | |
| Plus Processing Cost | | | $3.25 | $318.87 | |
| Plus Labour Cost | | | $4.00 | **$322.87** | |

| | Amount (kg) | Price ($ /tonne) | Ration Cost ($ /tonne) | Your Cost |
|---|---|---|---|---|
| **Starter** | | | | |
| Barley | 248.09 | $190.00 | $47.14 | |
| Corn | 343.88 | $162.00 | $55.71 | |
| Soybean Meal - 47 % | 116.51 | $300.00 | $34.95 | |
| Canola Meal - 34% | 15.92 | $225.00 | $3.58 | |
| Peas | 251.36 | $225.00 | $56.56 | |
| Grower Micro Premix | 3.00 | $2,500.00 | $7.50 | |
| Limestone | 12.41 | $80.00 | $0.99 | |
| Dical (16% Ca-21% P | 4.85 | $470.00 | $2.28 | |
| Salt - 96% | 3.50 | $98.00 | $0.34 | |
| L-Lysine HCL | 0.26 | $2,700.00 | $0.70 | |
| L-Threonine | 0.09 | $6,400.00 | $0.58 | |
| D L-Methionine | 0.13 | $4,500.00 | $0.59 | |
| **Total Starter** | **1,000.00 kg** | | **$210.92** | |
| Adjusted For Weight Loss | | 1.25 % | $213.56 | |
| Plus Processing Cost | | $3.25 | $216.81 | |
| Plus Labour Cost | | $4.00 | **$220.81** | |
| **Grower** | | | | |
| Barley | 178.5 | $190.00 | $33.91 | |
| Corn | 405.6 | $162.00 | $65.71 | |
| Soybean Meal - 47 % | 69.5 | $300.00 | $20.84 | |
| Canola Meal - 34% | 27.4 | $225.00 | $6.15 | |
| Peas | 295.3 | $225.00 | $66.44 | |
| Grower Micro Premix | 3.0 | $2,500.00 | $7.50 | |
| Limestone | 11.8 | $80.00 | $0.94 | |
| Dical (16% Ca-21% P) | 5.4 | $470.00 | $2.53 | |
| Salt - 96% | 3.5 | $98.00 | $0.34 | |
| L-Lysine HCL | 0.03 | $2,700.00 | $0.08 | |
| D L-Methionine | 0.03 | $4,500.00 | $0.14 | |
| **Total Grower** | **1,000.00 kg** | | **$204.58** | |
| Adjusted For Weight Loss | | 1.25 % | $207.14 | |
| Plus Processing Cost | | $3.25 | $210.39 | |
| Plus Labour Cost | | $4.00 | **$214.39** | |
| **Finisher** | | | | |
| Barley | 437.72 | $190.00 | $83.17 | |
| Corn | 173.79 | $162.00 | $28.15 | |
| Canola Meal - 34% | 4.65 | $225.00 | $1.05 | |
| Peas | 363.86 | $225.00 | $81.87 | |
| Grower Micro Premix | 3.00 | $2,500.00 | $7.50 | |
| Limestone | 10.48 | $80.00 | $0.84 | |
| Dical (16% Ca-21% P) | 2.84 | $470.00 | $1.33 | |
| Salt - 96% | 3.50 | $98.00 | $0.34 | |
| L-Threonine | 0.02 | $6,400.00 | $0.13 | |
| D L-Methionine | 0.14 | $4,500.00 | $0.63 | |
| **Total Finisher** | **1,000.00 kg** | | **$205.01** | |
| Adjusted For Weight Loss | | 1.25 % | $207.57 | |
| Plus Processing Cost | | $3.25 | $210.82 | |
| Plus Labour Cost | | $4.00 | **$214.82** | |

## Farrow Finish Pig Production Cost Worksheet

| | | | Your Cost |
|---|---|---|---|
| **A. Operating Costs** | | | |
| **1. Feed Requirements and Costs** | | | |
| **1.01 Sow Lactation** | | | |
| | 21 | days average weaning age | |
| x | 2.20 | litters/sow/year | |
| = | 46.2 | days lactation | |
| x | 6.0 | kg ration/day | |
| x | $232.87 | /tonne ration | |
| ÷ | 1,000 | kg/tonne | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | **$3.33** | **/pig sold** | |
| **1.02 Sow Gestation** | | | |
| | 365 | days/year | |
| - | 46.2 | days lactation | |
| = | 318.8 | days gestation | |
| x | 2.3 | kg ration/day | |
| x | $213.42 | /tonne ration | |
| ÷ | 1,000 | kg/tonne | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | **$8.08** | **/pig sold** | |
| **1.03 Boar Ration** | | | |
| | 365 | days | |
| x | 2.5 | kg ration/day | |
| x | $213.42 | /tonne ration | |
| ÷ | 1,000 | kg/tonne | |
| x | 15 | boars | |
| ÷ | 300 | sows | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | **$0.50** | **/pig sold** | |
| **1.04 Creep Feed** | | | |
| | 3 | kg ration/pig | |
| x | $1,370.00 | /tonne of creep feed | |
| ÷ | 1,000 | kg/tonne | |
| x | 23.10 | pigs born alive/sow/year | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | **$4.90** | **/pig sold** | |

| | | | Your Cost |
|---|---|---|---|
| **1.05 Nursery Starter #1** | | | |
| | 16.00 | kg target sale weight | |
| - | 8.00 | kg target weaning weight | |
| = | 8.00 | kg weight gain | |
| x | 1.75 | feed conversion ratio | |
| = | 14.00 | kg ration/pig | |
| x | $500.00 | /tonne starter ration #1 | |
| ÷ | 1,000 | kg/tonne | |
| x | 20.17 | weaners transferred/sow/year | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | **$7.29** | **/pig sold** | |
| **1.06 Nursery Starter #2** | | | |
| | 23.00 | kg target sale weight | |
| - | 16.00 | kg target weaning weight | |
| = | 7.00 | kg weight gain | |
| x | 2.00 | feed conversion ratio | |
| = | 14.00 | kg ration/pig | |
| x | $437.00 | /tonne starter ration #2 | |
| ÷ | 1,000 | kg/tonne | |
| x | 20.17 | weaners transferred/sow/year | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | **$6.37** | **/pig sold** | |
| **1.07 Starter Ration** | | | |
| | 27.0 | kg weight gain/pig | |
| x | 2.60 | feed conversion ratio | |
| = | 70.2 | kg ration/pig | |
| x | $220.81 | /tonne ration | |
| ÷ | 1,000 | kg/tonne | |
| = | **$15.50** | **/pig sold** | |
| **1.08 Grower Ration** | | | |
| | 30.0 | kg weight gain/pig | |
| x | 2.90 | feed conversion ratio | |
| = | 87.0 | kg ration/pig | |
| x | $214.39 | /tonne ration | |
| ÷ | 1,000 | kg/tonne | |
| = | **$18.65** | **/pig sold** | |
| **1.09 Finisher Ration** | | | |
| | 33.0 | kg weight gain/pig | |
| x | 3.30 | feed conversion ratio | |
| = | 108.9 | kg ration/pig | |
| x | $214.82 | /tonne ration | |
| ÷ | 1,000 | kg/tonne | |
| = | **$23.39** | **/pig sold** | |

| | | | Your Cost |
|---|---|---|---|
| **2. Other Operating Costs** | | | |
| **2.01 Veterinary Medicine & Supplies** | | | |
| | $7.29 | /sow/year services | |
| + | $21.83 | /sow/year medication | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | $1.50 | /pig sold | |
| | $0.90 | /pig transferred in | |
| x | 6,050 | pigs transferred in | |
| ÷ | 5,809 | pigs sold | |
| = | $0.94 | /pig sold | |
| = | **$2.44** | **/pig sold** | |
| **2.02 Maintenance & Repairs** | | | |
| | $1,260,937 | building & equipment | |
| x | 0.55 | %/sow/year repair & maintenance | |
| ÷ | 5,809 | pigs sold/sow/year | |
| = | **$1.19** | **/pig sold** | |
| **2.03 Hydro & Propane/Natural Gas** | | | |
| | $5,000 | propane/natural gas | |
| x | $10,258 | hydro | |
| ÷ | 5,809 | pigs sold | |
| = | **$2.63** | **/pig sold** | |
| **2.04 Insurance** | | | |
| | $1,260,937 | buildings & equipment | |
| x | $0.65 | rate/$100 | |
| ÷ | 100 | /$100 capital invested | |
| ÷ | 5,809 | pigs sold | |
| = | $1.41 | /pig sold | |
| | $120,000 | breeding stock | |
| + | $266,964 | market hogs value | |
| ÷ | $0.65 | /$100 capital invested | |
| ÷ | 5,809 | pigs sold | |
| = | $0.43 | /pig sold | |
| | $1,200.00 | business interruption coverage/sow | |
| x | 300 | sows | |
| x | $0.65 | /$100 capital invested | |
| ÷ | 5,809 | pigs sold | |
| = | $0.40 | /pig sold | |
| = | **$2.25** | **/pig sold** | |

| | | | | Your Cost |
|---|---|---|---|---|
| **2.05 Manure Costs** | | | | |
| Haulage | | 63.0 | litres/sow/day | |
| | x | $0.003 | /litres haulage rate | |
| | x | 365 | days | |
| | ÷ | 19.36 | pigs sold/sow/year | |
| | = | $3.56 | /pig sold | |
| Odour control | | $4,300 | total costs | |
| | ÷ | 5,809 | pigs sold | |
| | = | $0.74 | /pig sold | |
| **Total** | = | **$4.30** | **/pig sold** | |
| **2.06 Office Supplies** | | | | |
| | | $2.00 | $/sow | |
| | ÷ | 19.36 | pigs sold/sow/year | |
| | = | **$0.10** | **/pig sold** | |
| **2.07 Marketing & Transportation** | | | | |
| | | $2.00 | trucking in | |
| | + | $2.80 | trucking out | |
| | + | $0.85 | council levy | |
| | + | $0.04 | grading charge | |
| | + | $0.17 | insurance | |
| | ÷ | $0.70 | brokerage fee | |
| | = | **$6.56** | **/pig sold** | |
| **2.08 Sow Replacement** | | | | |
| | | 180.0 | kg/sow (cull weight) | |
| | x | $86.24 | /100 kg live | |
| | = | $155.23 | /sow value of cull | |
| | | $350.00 | /sow value of replacement | |
| | - | $155.23 | /sow value of cull | |
| | = | $194.77 | net replacement cost | |
| | x | 40.0 | percent sow culling rate | |
| | ÷ | 19.36 | pigs sold/sow/year | |
| | = | **$4.02** | **/pig sold** | |

| | | | Your Cost |
|---|---|---|---|
| **2.09 Boar Replacement** | | | |
| | 225.0 | kg/boar (cull weight) | |
| x | $61.60 | /100 kg live | |
| = | $138.60 | /boar value of cull | |
| | | | |
| | $1,000 | /boar value of replacement | |
| - | $138.60 | /boar value of cull | |
| = | $861.40 | net replacement cost | |
| x | 50.0 | % culling rate | |
| x | 15 | number of boars | |
| ÷ | 300 | number of sows | |
| ÷ | 19.36 | pigs sold/sow/year | |
| = | **$1.11** | **/pig sold** | |
| **2.10 Property Taxes** | | | |
| | $6,615 | total taxes | |
| ÷ | 5,809 | pigs sold | |
| = | **$1.14** | **/pig sold** | |

**2.11 Interest on Operating Cost:**

| **Sub-total Operating Cost** | **x** | **days to market** | **x** | **interest** |
|---|---|---|---|---|
| **2** | | **365** | | |

| | | | |
|---|---|---|---|
| | $113.78 | subtotal operating | |
| ÷ | 2 | average | |
| x | 165 | days farrow to farrow | |
| ÷ | 365 | days per year | |
| x | 6.0 | % operating interest rate | |
| = | **$1.54** | **/pig sold** | |

| | | | Your Cost |
|---|---|---|---|
| **B. Fixed Costs** | | | |
| **3. Depreciation:** | **Original cost - Salvage Value / Useful Life** | | |
| **3.01 Buildings** | | | |
| | $681,925 | building cost (including earthen manure storage) | |
| - | $63,401 | salvage value (building only) | |
| ÷ | 20 | years useful life | |
| ÷ | 5,809 | pigs sold | |
| = | **$5.32** | **/pig sold** | |
| **3.02 Equipment** | | | |
| | $626,925 | equipment cost | |
| - | $62,693 | salvage value | |
| ÷ | 10 | years useful life | |
| ÷ | 5,809 | pigs sold | |
| = | **$9.71** | **/pig sold** | |
| **4. Investment:** | **(Original Cost + Salvage Value) / 2 X % Investment Interest** | | |
| **4.01 Land Cost** | | | |
| | $10,000 | land investment | |
| + | $30,000 | site preparation | |
| x | 4.0 | % investment rate | |
| ÷ | 5,809 | pigs marketed | |
| = | **$0.28** | **/pig sold** | |
| **4.02 Buildings** | | | |
| | $689,012 | building cost (including earthen manure storage) | |
| + | $63,401 | salvage value (building only) | |
| ÷ | 2 | average | |
| x | 4.0 | % investment rate | |
| ÷ | 5,809 | pigs sold | |
| = | **$2.59** | **/pig sold** | |

| | | | | Your Cost |
|---|---|---|---|---|
| **4.03 Equipment** | | | | |
| | | $626,925 | equipment cost/sow | |
| | + | $62,693 | salvage value/sow | |
| | ÷ | 2 | average | |
| | x | 4.0 | % investment rate | |
| | ÷ | 5,809 | pigs sold | |
| | = | **$2.37** | **/pig sold** | |
| **4.04 Breeding Stock** | | | | |
| | | $120,000 | value of breeding stock | |
| | x | 4.0 | % investment rate | |
| | ÷ | 5,809 | pigs sold | |
| | = | **$0.83** | **/pig sold** | |
| **C. Labour** | | | | |
| Farrow Wean | | 90.0 | hours/week | |
| | x | 52 | weeks/year | |
| | x | $12.00 | /hour | |
| | ÷ | 300 | sows | |
| | ÷ | 19.36 | pigs sold/sow/year | |
| | = | **$9.67** | **/pig sold** | |
| Grower Finish | | 2,340 | total hours/year | |
| | x | $12.00 | /hour | |
| | ÷ | 5,809 | pigs sold/sow/year | |
| | = | **$4.83** | **/pig sold** | |
| Total | = | **$14.50** | **/pig sold** | |

## Summary of Purchased Feeds Used

**Farrow finish** 300 sows
**Total sold** 5,809 pigs sold

| | Total per Year (tonnes) | Total per Month (tonnes) | Total per Pig (kgs) | Total per Pig (lbs) |
|---|---|---|---|---|
| Dry Sow Ration | 0 | 0.0 | 0.0 | 0.0 |
| Nursing Sow Ration | 0 | 0.0 | 0.0 | 0.0 |
| Boar Ration | 0 | 0.0 | 0.0 | 0.0 |
| Creep | 19 | 1.6 | 3.2 | 7.1 |
| Nursery Starter #1 | 87 | 7.3 | 15.0 | 33.1 |
| Nursery Starter #2 | 87 | 7.3 | 15.0 | 33.1 |
| Starter | 0 | 0.0 | 0.0 | 0.0 |
| Grower | 0 | 0.0 | 0.0 | 0.0 |
| Finisher | 0 | 0.0 | 0.0 | 0.0 |
| Total | **193.3** | **16.1** | **33.3** | **73.4** |

## Summary of Home Mixed Feed Ingredients Used

| | Total per Year (tonnes) | Total per Month (tonnes) | Total per Pig (kgs) | Total per Pig (lbs) |
|---|---|---|---|---|
| Barley | 619.6 | 51.6 | 106.7 | 235.1 |
| Corn | 595.2 | 49.6 | 102.5 | 225.9 |
| Soybean Meal - 47 % | 106.5 | 8.9 | 18.3 | 40.4 |
| Canola Meal - 34% | 55.2 | 4.6 | 9.5 | 20.9 |
| Peas | 501.9 | 41.8 | 86.4 | 190.5 |
| Creep Premix | 0.0 | 0.0 | 0.0 | 0.0 |
| Sow Micro Premix | 1.6 | 0.1 | 0.3 | 0.6 |
| Grower Micro Premix | 4.8 | 0.4 | 0.8 | 1.8 |
| Canola Oil | 0.0 | 0.0 | 0.0 | 0.0 |
| Whey Powder | 0.0 | 0.0 | 0.0 | 0.0 |
| Herring Meal | 0.0 | 0.0 | 0.0 | 0.0 |
| Plasma | 0.0 | 0.0 | 0.0 | 0.0 |
| Limestone | 23.0 | 1.9 | 4.0 | 8.7 |
| Dical (16% Ca-21% P) | 11.6 | 1.0 | 2.0 | 4.4 |
| Salt - 96% | 6.9 | 0.6 | 1.2 | 2.6 |
| L-Lysine HCL | 0.4 | 0.0 | 0.1 | 0.2 |
| L-Threonine | 0.1 | 0.0 | 0.0 | 0.0 |
| Oats - Steam rolled | 0.0 | 0.0 | 0.0 | 0.0 |
| **Total Ration Used** | **1,926.6** | **160.55** | **331.6** | **731.1** |
| **Total** | **2,119.9** | **176.7** | **364.9** | **804.5** |

**For further information contact your local Manitoba Agriculture and Food office.**

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